line 19, after "pointed" insert --to--.

Page 18, line 4, after "pointed" insert --to--;

line 15, delete "during" and insert --while--;

line 18, after "advantage" insert --in--.

Page 19, line 24, delete "resort" and insert --resorting--; same line, after "to"
insert --an--.

Page 20, after line 24, please insert the following paragraph:

--Many different embodiments of the present invention may be constructed without

departing from the spirit and scope of the invention. It should be understood that the present

invention is not limited to the specific embodiments described in this specification. To the

contrary, the present invention is intended to cover various modifications and equivalent

arrangements included within the spirit and scope of the claims.--

IN THE CLAIMS

Please amend the claims as follows:

1. (Amended) A data structure [realized], stored on a storage medium, in a
database, comprising:

a plurality of data areas in which given time series data pieces are loaded in a

sequence of times; and

bookmark information areas respectively provided at predetermined locations

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in said plurality of data areas, [and] each having a pair of bookmark information indicative of a

time corresponding to a time series data piece loaded in each of said data areas and state

transition information indicative of a state of the data piece in said each data area, said state

transition information being allowed to have one of a value indicative of an online state in

which the data area is permitted to be retrieved and a value indicative of a loading state in

which loading of data in the data area has not yet been completed and the data area is not

permitted to be retrieved.

Claim 2,   line 2, delete "have"; same line, after "each" insert --have--;

               line 4, delete "plurality of".

4.   (Amended) A data structure [realized], stored on a storage medium, in a

database, comprising:

        a plurality of data areas in which given time series data pieces are loaded at

predetermined locations, respectively, in said database in a sequence of times; and

        predetermined bookmark information areas each having a pair of bookmark

information indicative of a time corresponding to a time series data piece loaded in each of

said data areas and state transition information indicative of a state of the data piece in each

data area, said state transition information having one of a value indicative of an online state in

which the data area is permitted to be retrieved and a value indicative of a loading state in

which loading of data in each data area has not yet been completed and the data area is not

permitted to be retrieved.

Claim 5,   line 1, delete "5" and insert --4--.

Claim 7,   line 2, after "database" insert --,--.

Claim 8,   line 1, after "7" insert --,--.

Claim 9,   line 1, after "7" insert --,--.

Claim 10,   line 1, after "7" insert --,--.

Claim 11,   line 1, after "7" insert --,--;

             line 5, delete in its entirety;

             line 6, delete in its entirety;

             line 7, delete "predetermined time,".

Claim 12,   line 2, after "database" insert --,--.

             line 21, after "in" insert --a--.

Please cancel Claim 13 without prejudice or disclaimer.

Claim 14,   line 2, after "database" insert --,--;

             line 16, delete in its entirety;

             line 17, delete "been completed,".

Claim 15,   line 1, after "14" insert --,--.

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